

CLAIMS

1. Multi-gear high-low clutch for construction machines, in particular for excavator loaders and telescopic handlers, torque converter (2), a drive shaft (3), an output shaft (4) and several jack shafts (5, 6, 7, 17), these idlers distributed on the shafts, fixed wheels and shift clutches (8, 9, 10, 11, 12, 13), which form several reduction gear units for the gearshift and direction circuit, containing six forward gears and three reverse gears, whereby output shaft (4) is also used as a jack shaft for a gear, thus characterized, that corresponding jack shaft (17) of forward gear unit and the corresponding jack shaft (5) of a further forward gear unit engage with drive shaft (3), whereby both jack shafts (17, 5) can be rotated in every desired angle position around drive shaft (3), that corresponding jack shafts (4, 6, 7) of the gears, applied to drive shaft (3), are arranged one behind the other on a side of the drive shaft (3) and that corresponding jack shafts (4, 6, 7) of the gears, can currently be rotated around the next visibly arranged jack shaft in a large angle area in the direction of drive shaft (3).

2. High-low clutch for excavator loaders and telescopic handlers, thus characterized, that an insertable front wheel drive (15) is proposed, which is connectable with fixed wheel (22) of output shaft (4) by an idler (32) and can be arranged in a large angle area around output shaft (4).

3. High-low clutch for excavator loaders and telescopic handlers according to claim 1, characterized in that a permanent front wheel drive (15) is proposed, whereby front wheel drive and rear wheel drive occur by means of output shaft (4).

4. High-low clutch for excavator loaders and telescopic handlers according to one of the preceding claims, characterized in that adding one or more wheels can result in a wide spectrum of transmission ratios and transmission ratio spreads.

5. High-low clutch for excavator loaders and telescopic handlers according to one of the preceding claim, characterized in that removing an entire shaft (5, 6, 7) results in a transmission with four forward gears and two reverse gears.

6. High-low clutch for excavator loaders and telescopic handlers, characterized in that an insertable front wheel drive (15) is proposed, which is connectable to a fixed wheel by an idler (23), whereby idler (23) is arranged on a jack shaft (6).